

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20489 - L2 Version 2
Chandra X-Ray Center

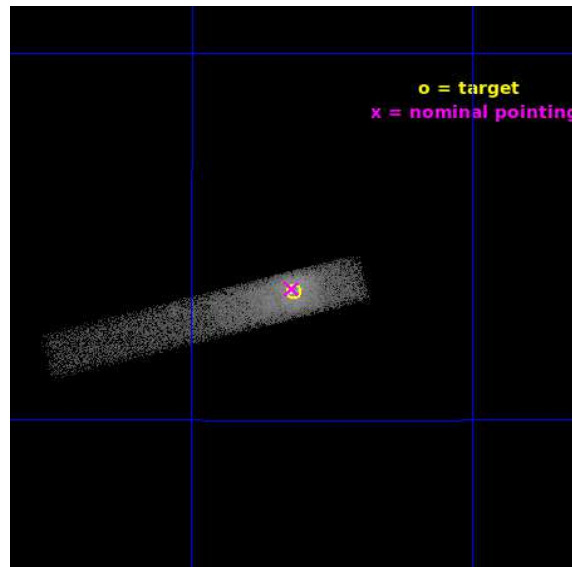
L2 Processing Date : Oct 25 2020

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1 Front

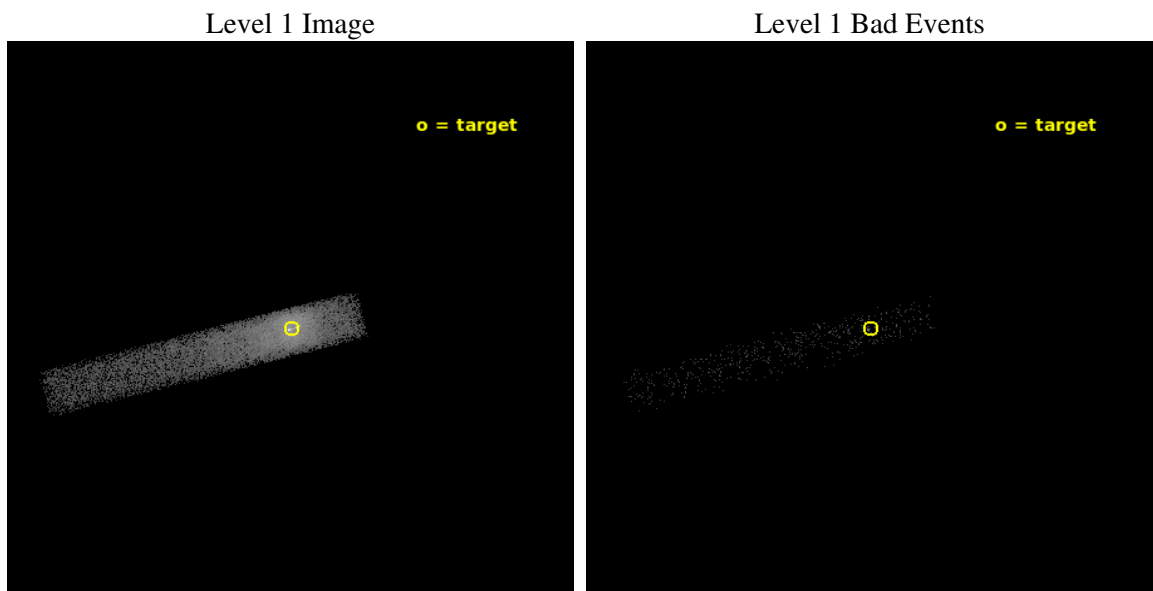
seq_num	703592	Sequence number
obs_id	20489	Observation id
title	Keeping Tabs on the Unique Jet in M87 During Cycle 19	Proposal tit
observer	C. (Teddy) Cheung	Principal investigator
object	M87	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.70521514335	Nominal RA [deg]
dec_nom	12.392921448103	Nominal Dec [deg]
roll_nom	165.14965116074	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5069.9051609039	Sum of GTIs [s]
liveltime	4598.1363694032	Livetime [s]
ontime7	5069.9051609039	Sum of GTIs [s]
l2events	29715	Number of level 2 events



2 OBI

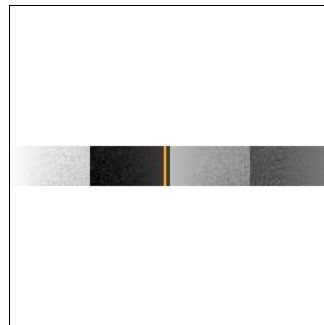
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	5069.9051609039	Sum of GTIs [s]
caldsver	4.9.3	 	ontime7	5069.9051609039	Sum of GTIs [s]
date	2020-10-25T04:01:57	Date and time of file creation	l1events	33644	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

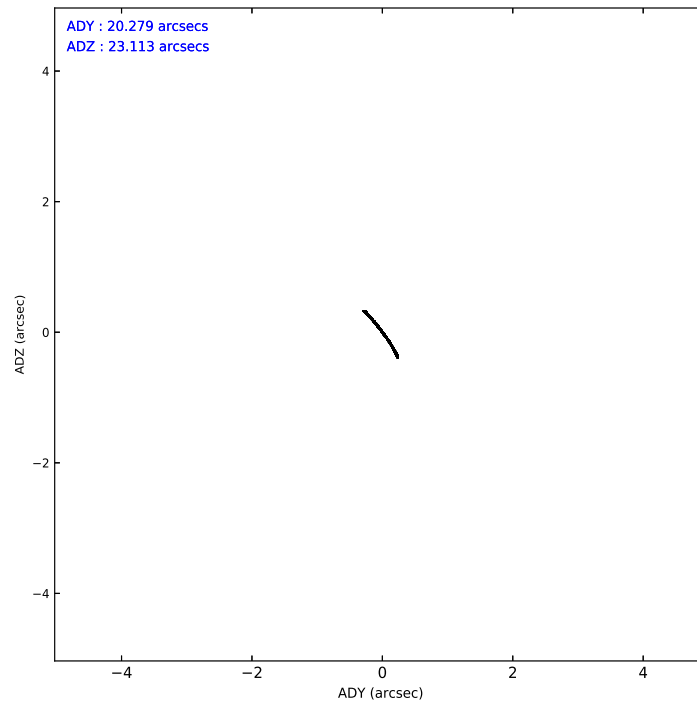
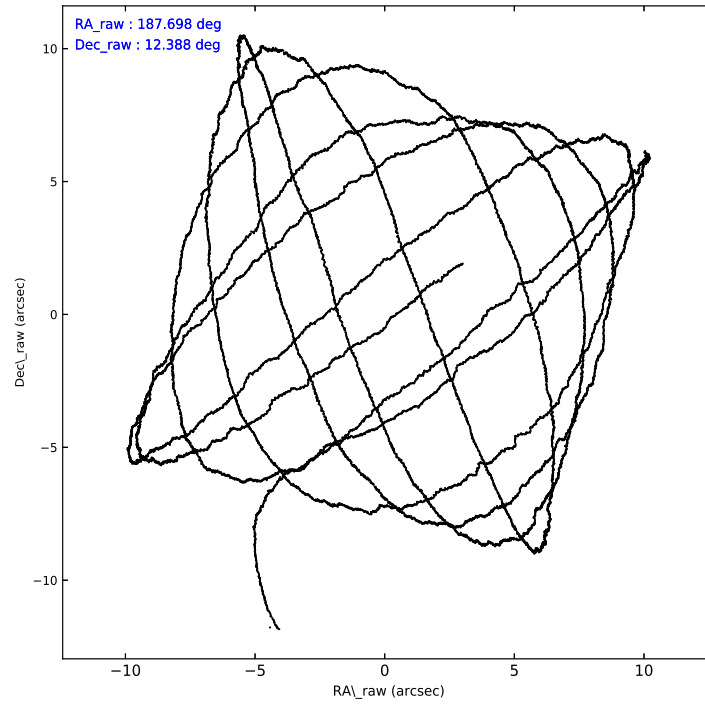
	ccd 7
level 1 events	33644
rejected events	3546
rejected %	10%

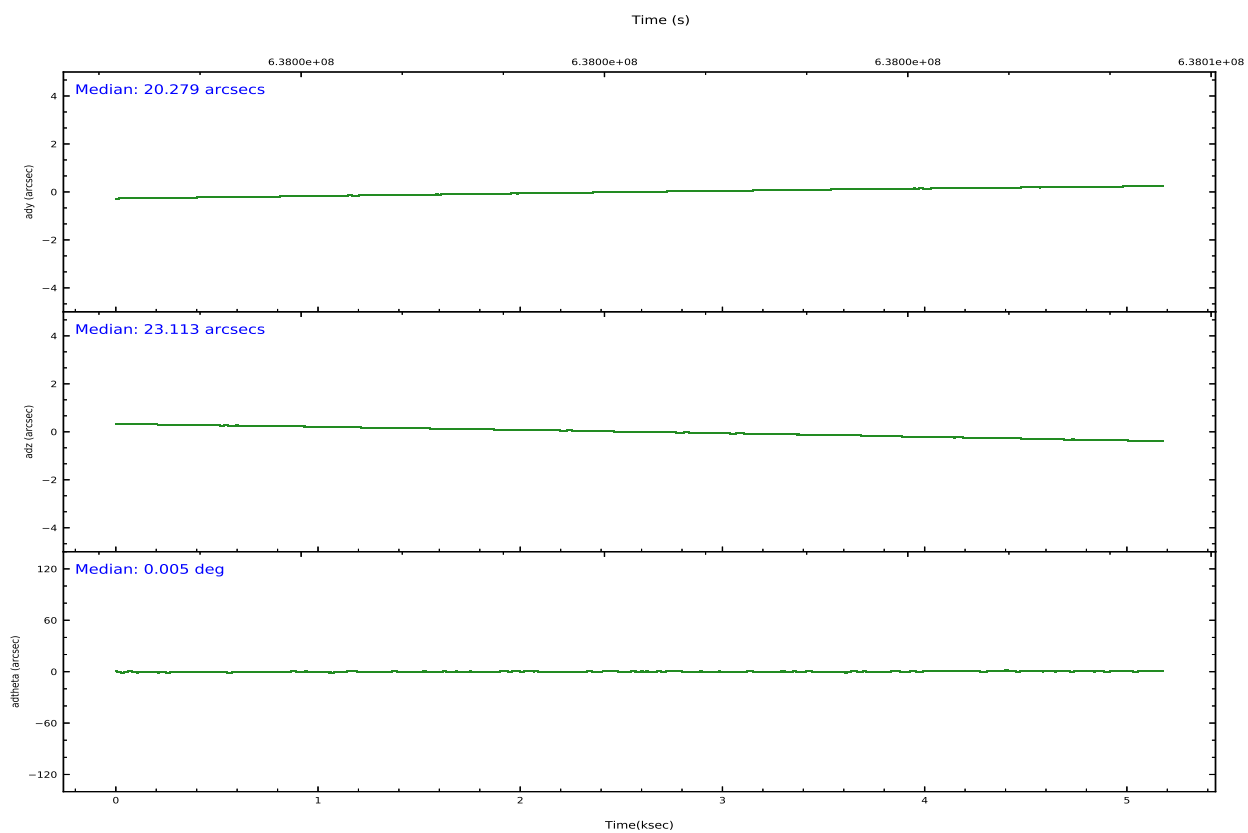
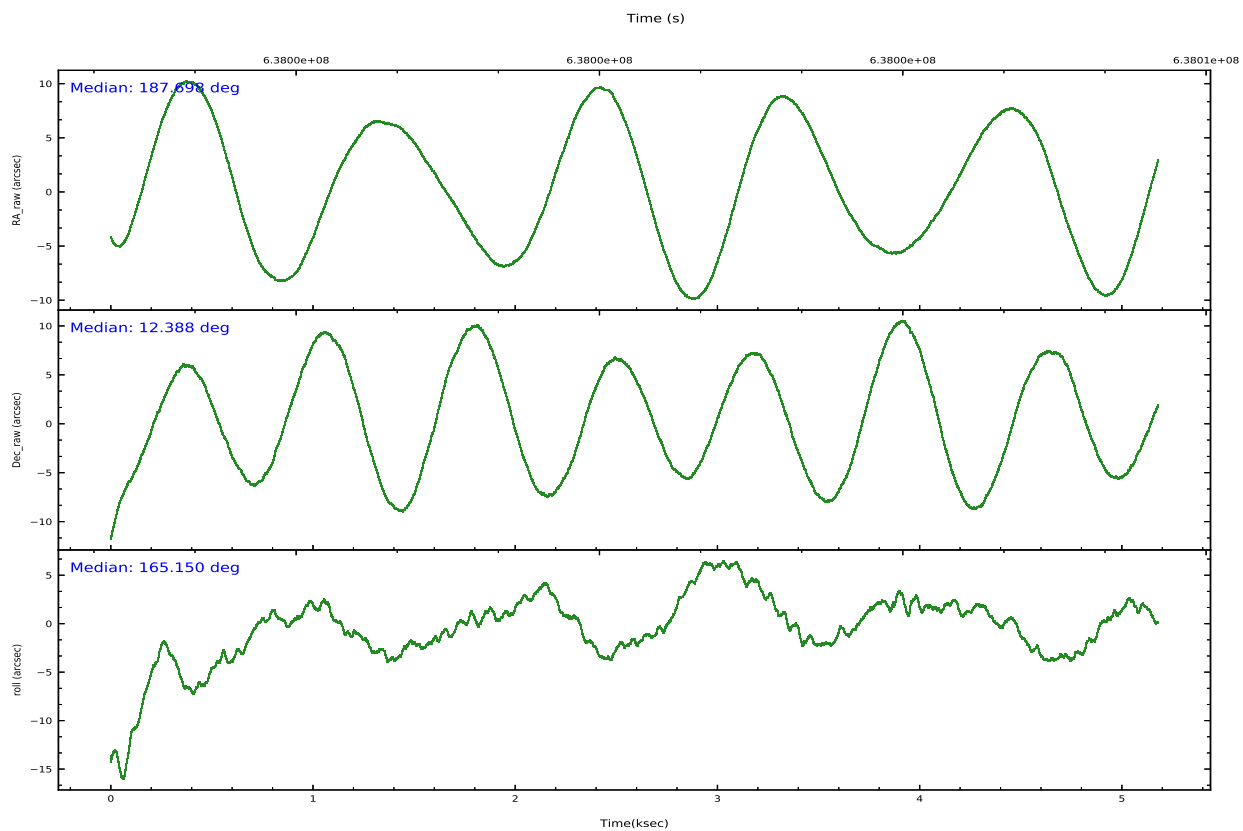
	ccd 7
grade 0 events	8245
	24%
grade 1 events	25
	0%
grade 2 events	7772
	23%
grade 3 events	3655
	10%
grade 4 events	3597
	10%
grade 5 events	828
	2%
grade 6 events	6836
	20%
grade 7 events	2686
	7%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	187.724712	187.70521514335	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.395659	12.392921448103	Subarray start row	449	449
[deg] Pointing Roll	164.995587	165.14965116074	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	638001263.184000	637999982.18039			
Observation start date	2018-03-21T06:33:14	2018-03-21T06:13:02			
[s] Observation end time (MET)	638006263.184000	638007040.33081			
Observation end date	2018-03-21T07:56:34	2018-03-21T08:10:40			
Read mode	TIMED	TIMED			

2.3 Aspect



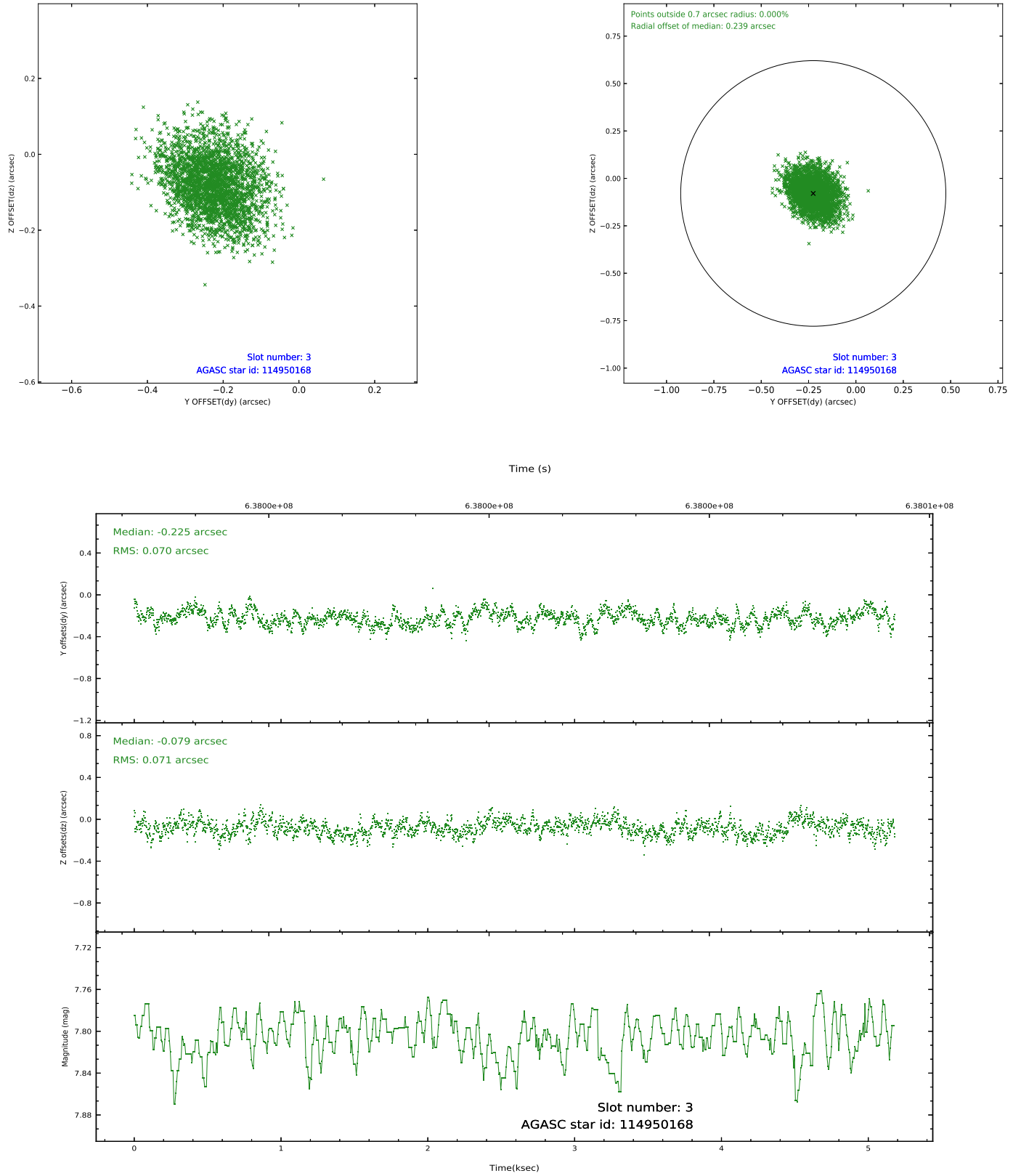


Slot Statistics

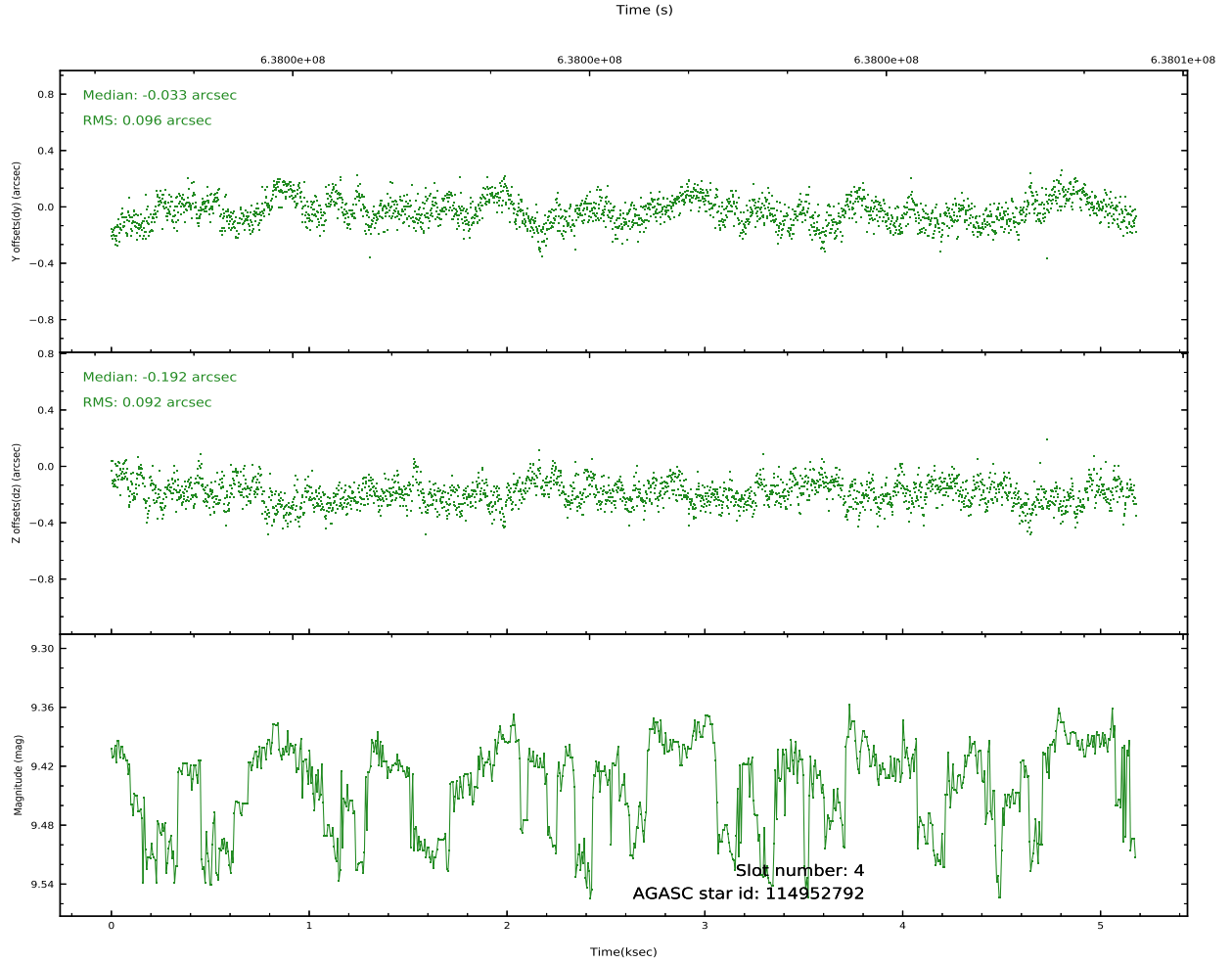
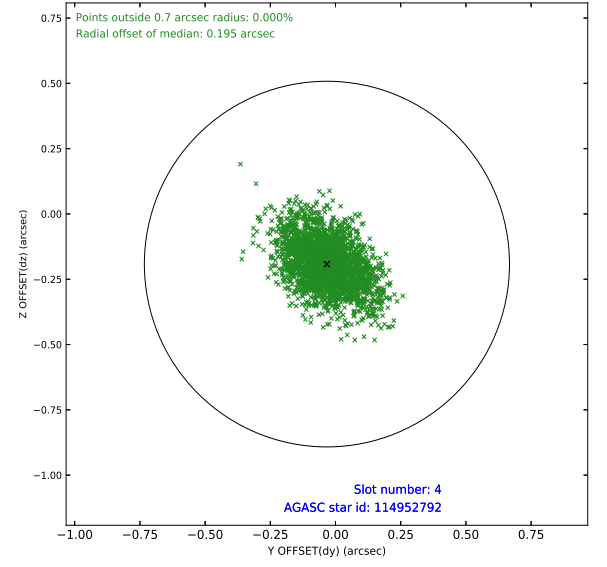
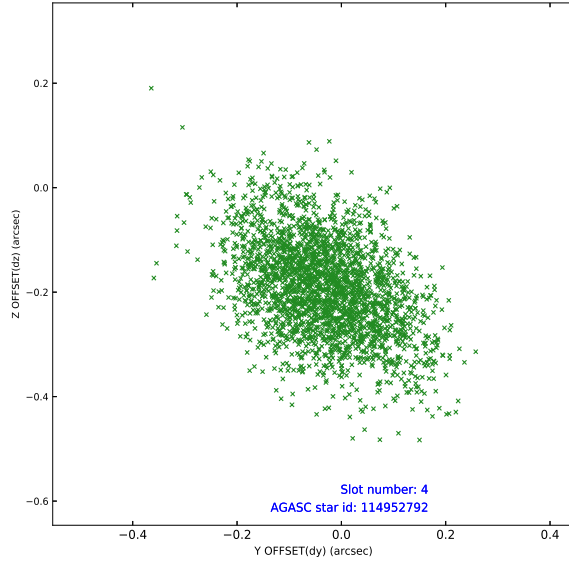
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.95	1264	1.000	0.123	-0.104	0.010	0.018	0.000000	0.000000	-773.53	-1744
1	FID		ACIS-S-4	7.06	1264	1.000	0.058	-0.031	0.008	0.014	0.000000	0.000000	2139.43	162
2	FID		ACIS-S-5	7.06	1264	1.000	-0.212	0.144	0.009	0.016	0.000000	0.000000	-1824.93	158
3	GUIDE	used	114950168	7.81	2527	1.000	-0.225	-0.079	0.107	0.171	187.143398	12.117441	1717.32	1495
4	GUIDE	used	114952792	9.43	2526	1.000	-0.033	-0.192	0.139	0.235	187.070263	12.344747	2178.51	771
5	GUIDE	used	114952824	8.55	2526	1.000	0.032	0.376	0.159	0.241	187.703904	12.486727	157.24	-297
6	GUIDE	used	114955056	8.29	2528	1.000	-0.067	0.073	0.118	0.203	187.914001	12.127854	-891.66	758
7	GUIDE	used	115348424	9.46	2525	1.000	0.306	-0.178	0.177	0.319	187.199498	13.087929	2424.93	-1931

2.4 Star Slots

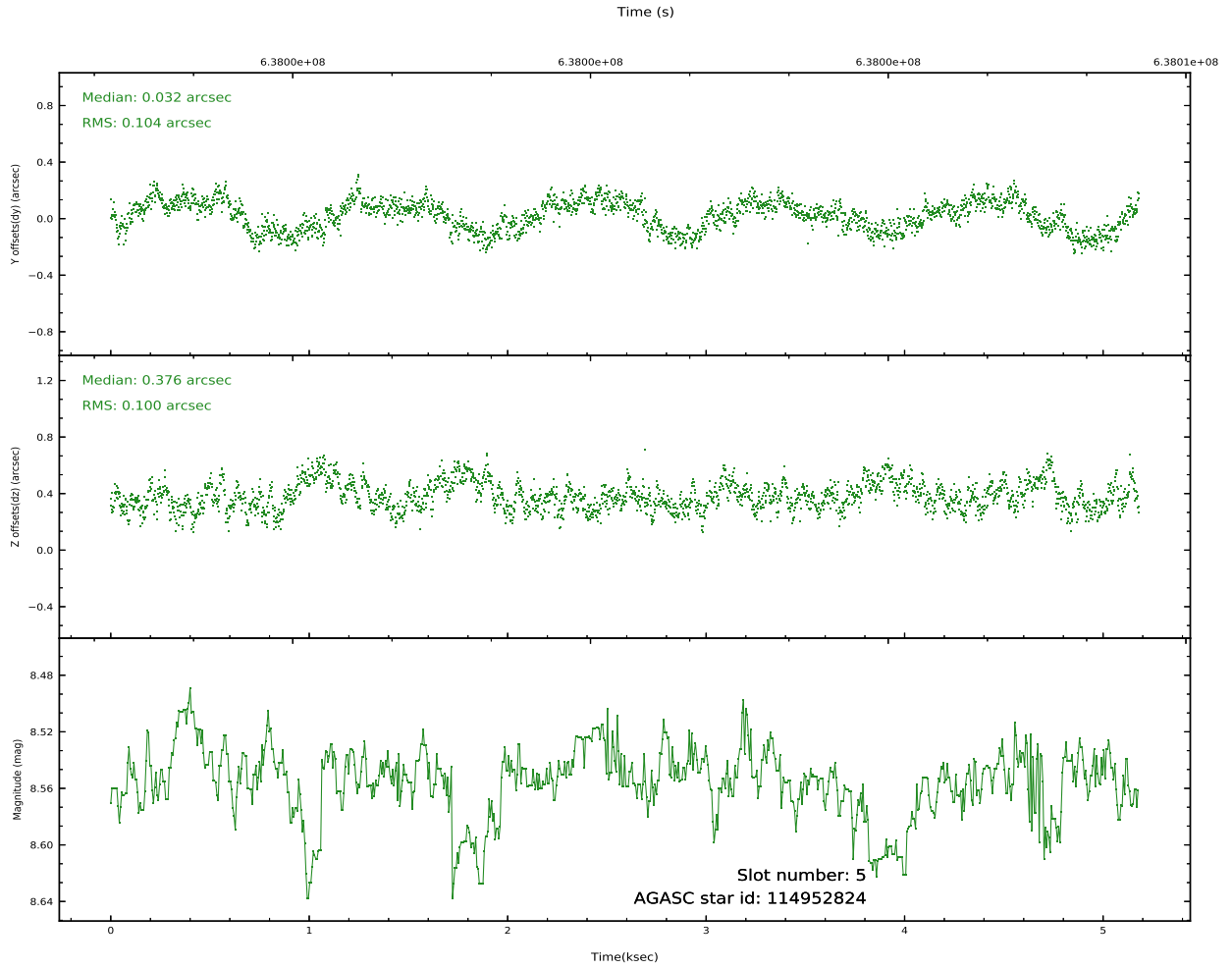
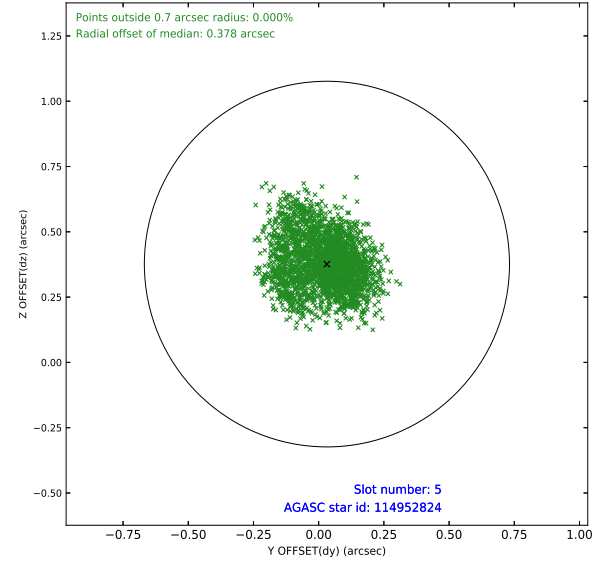
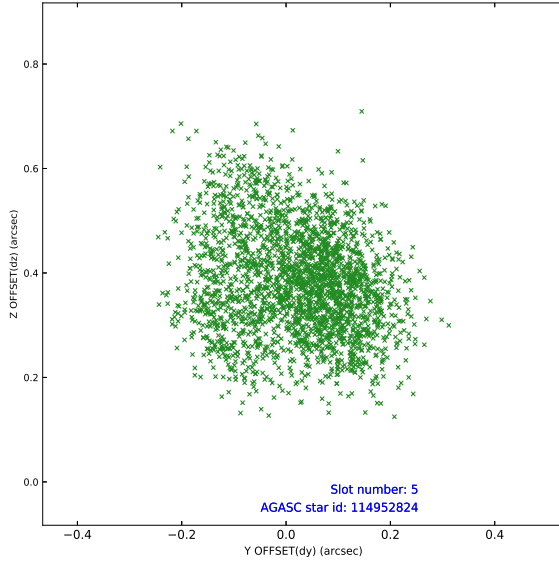
2.4.1 Slot 3



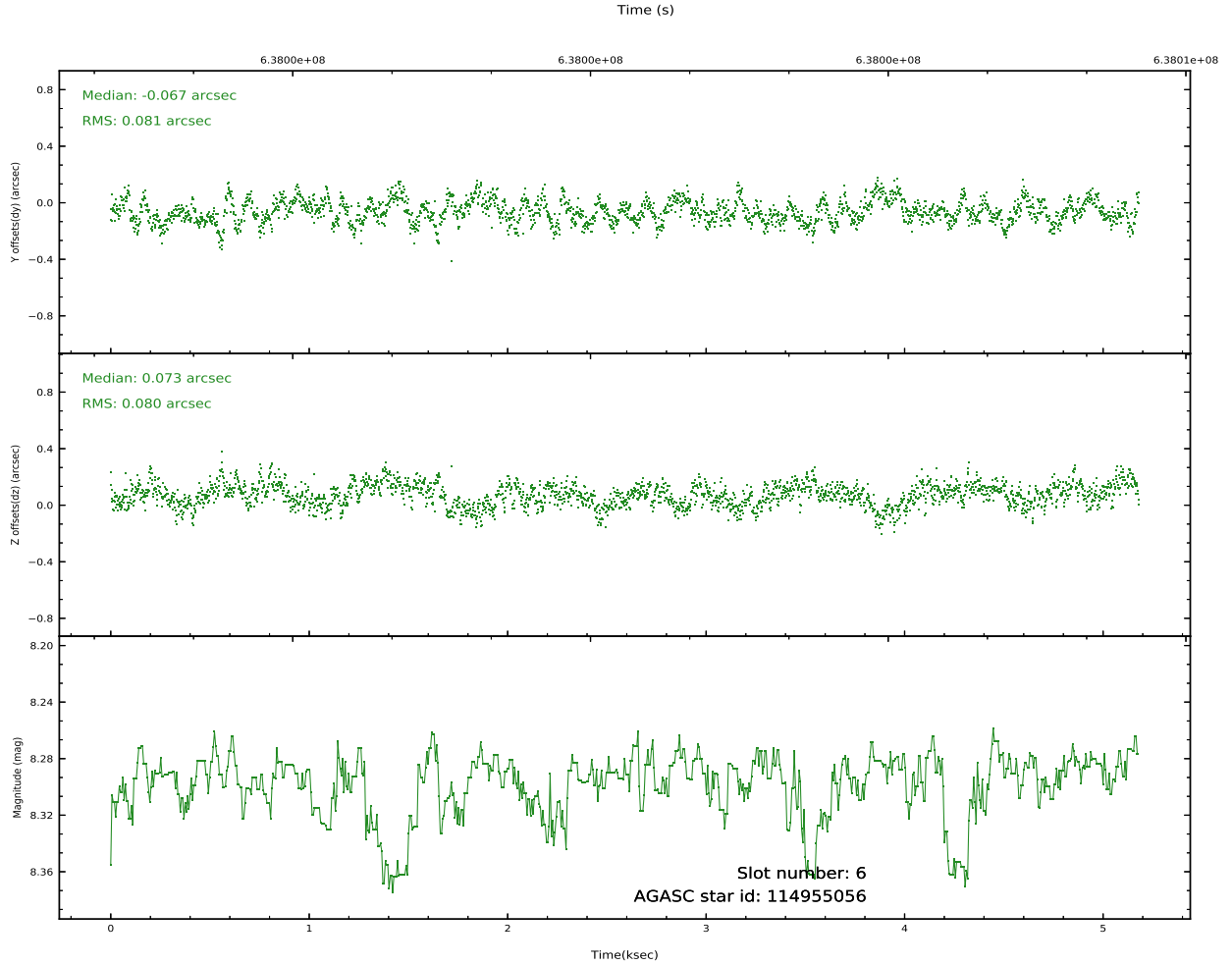
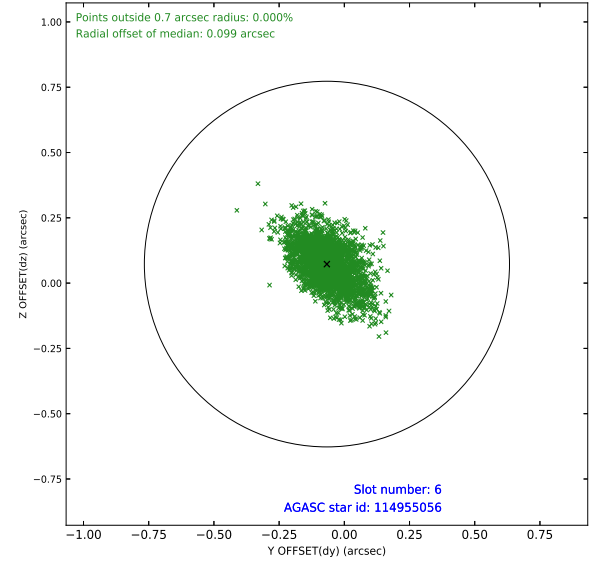
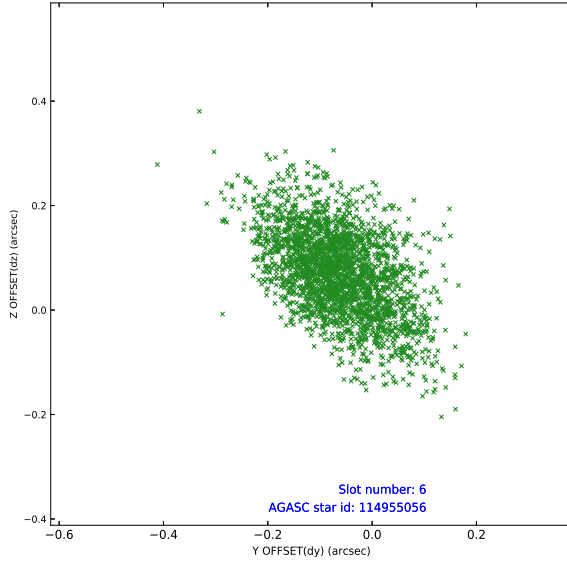
2.4.2 Slot 4



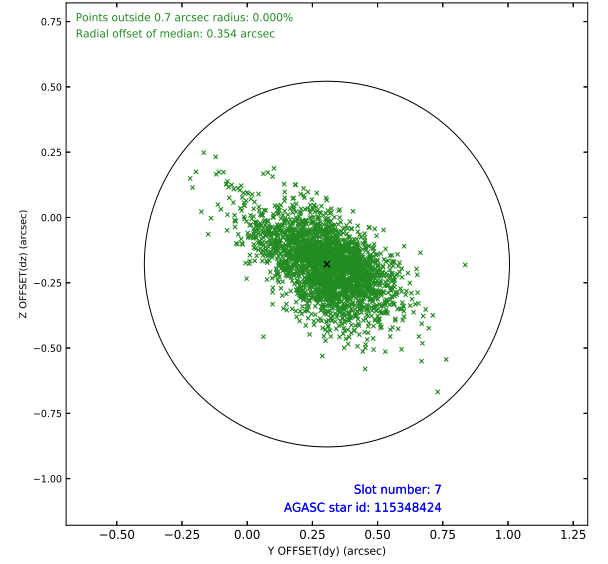
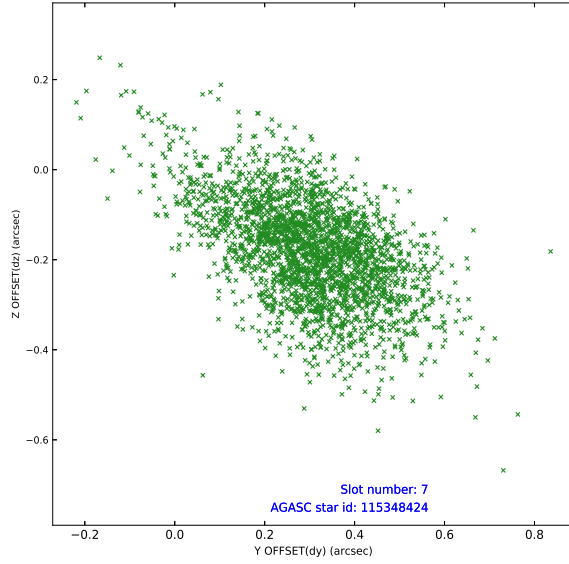
2.4.3 Slot 5



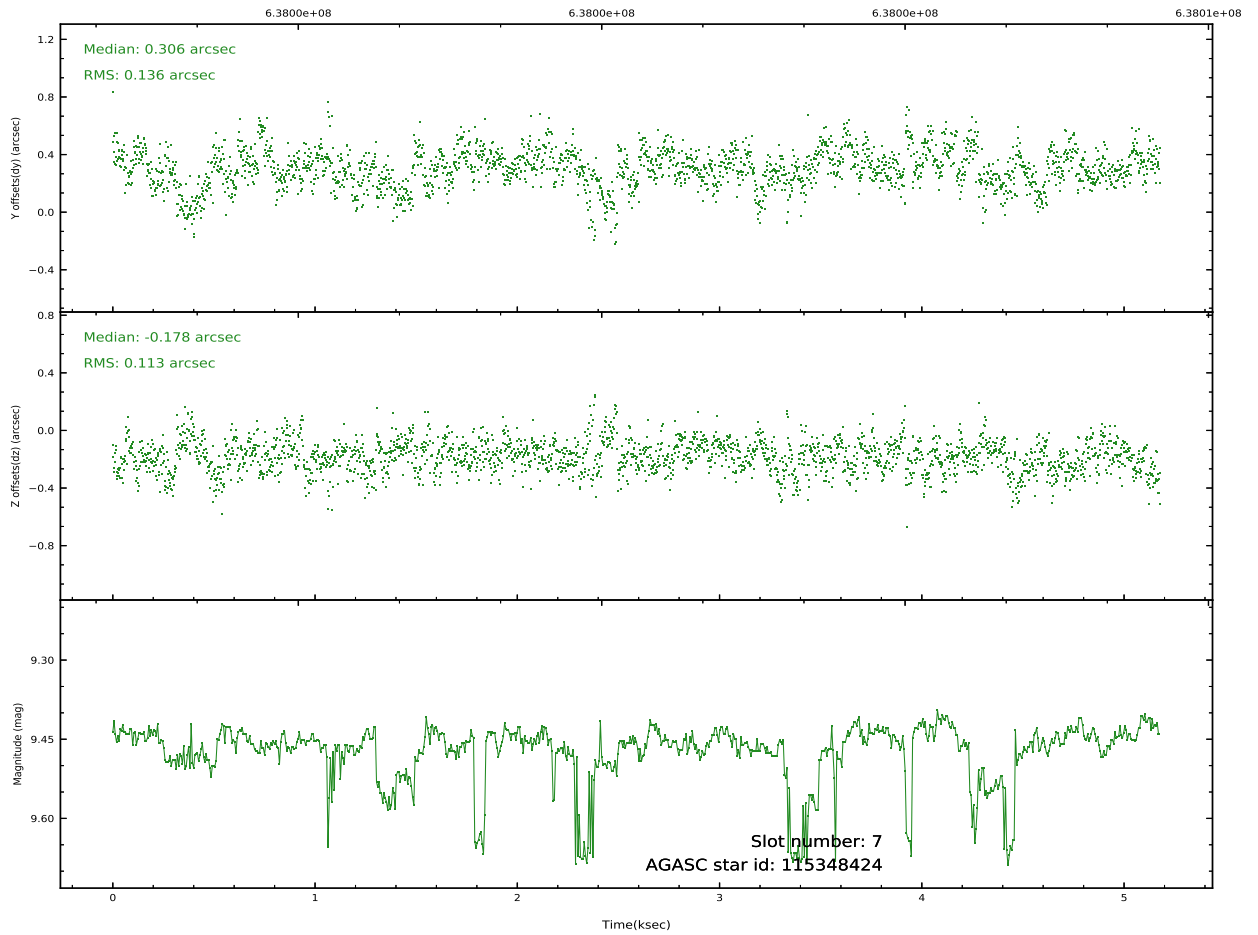
2.4.4 Slot 6



2.4.5 Slot 7

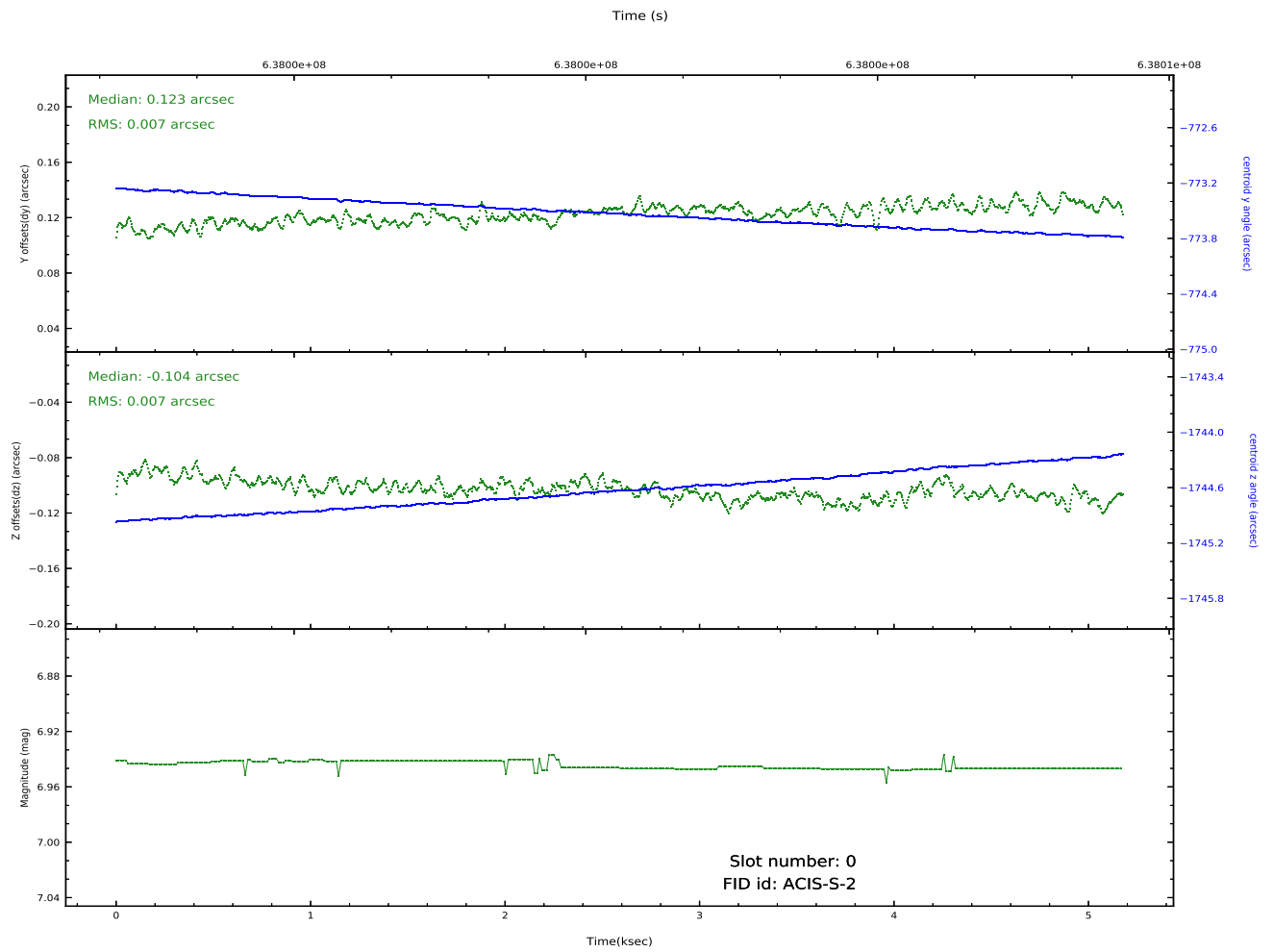
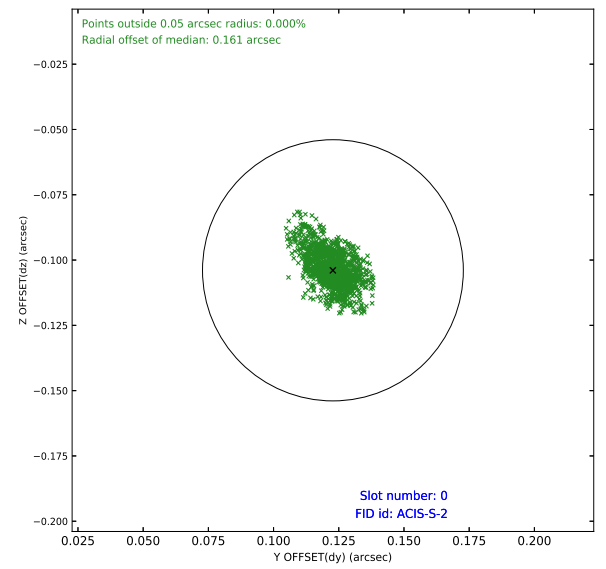
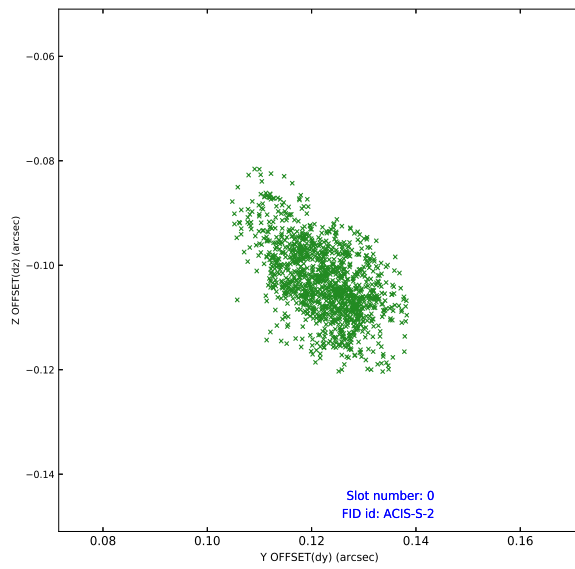


Time (s)

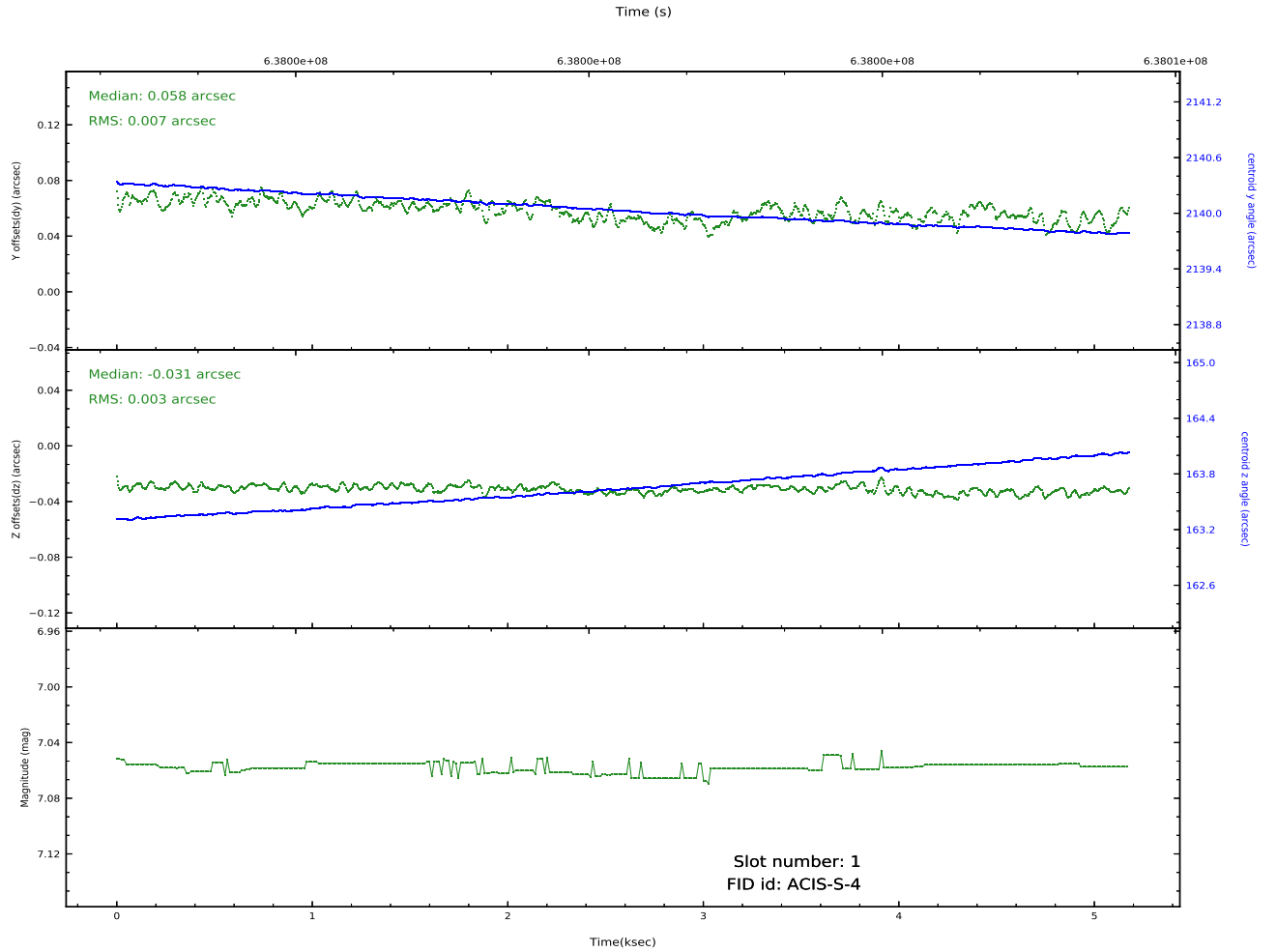
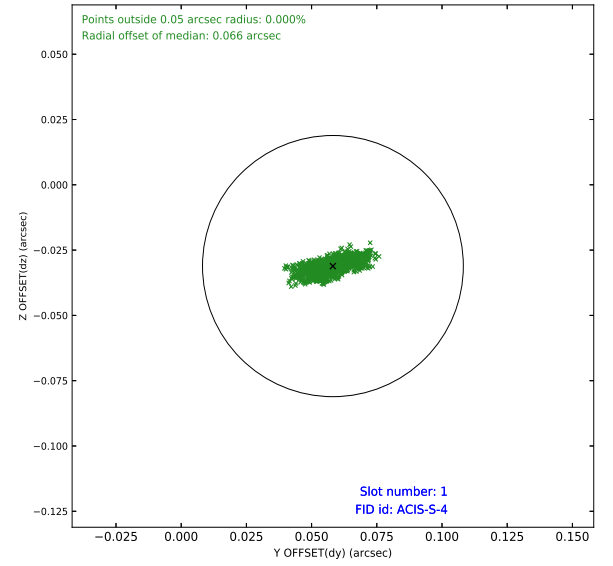
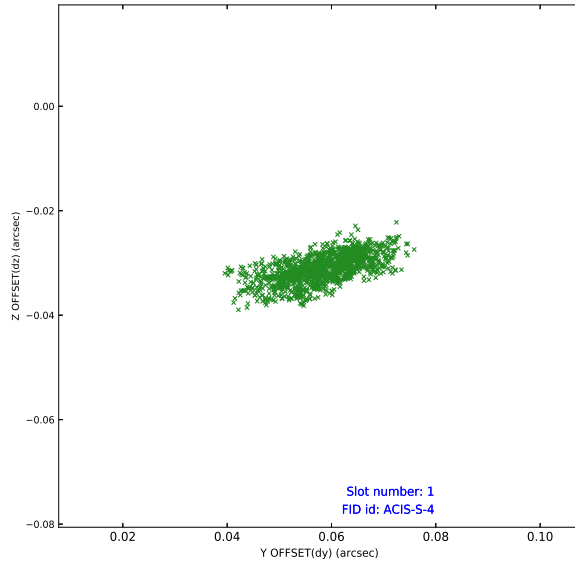


2.5 FID Slots

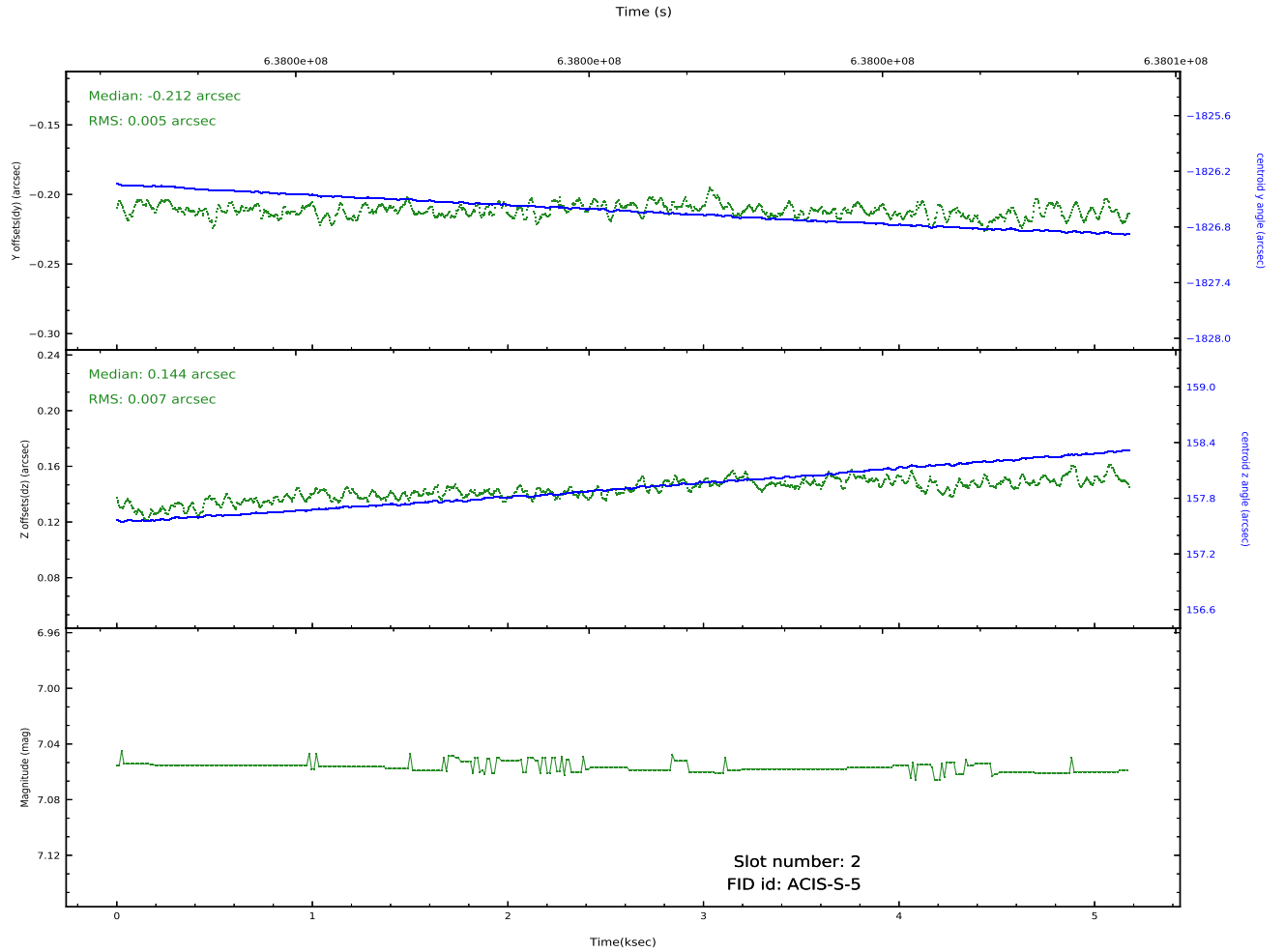
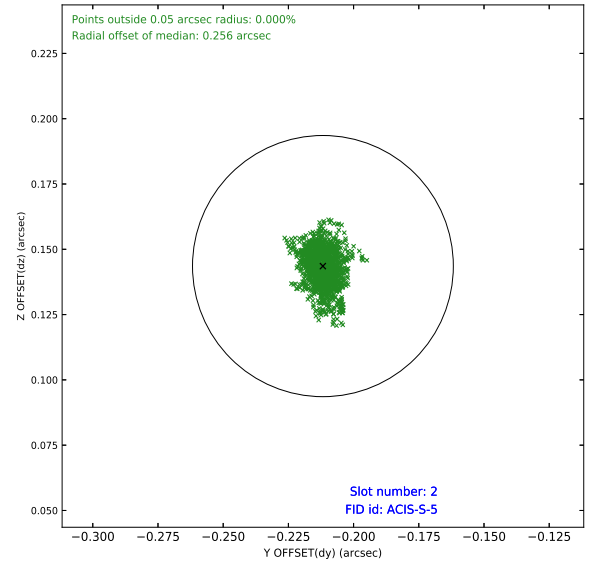
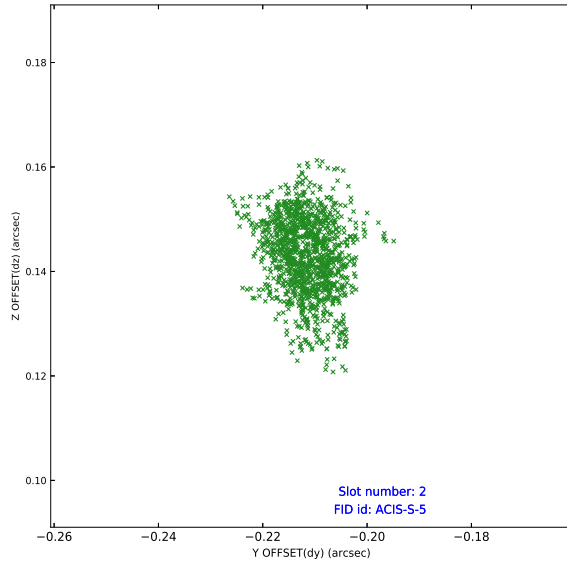
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0699051604271

A.2 Comments